

B.) AMENDMENTS TO THE SPECIFICATION

Please replace the title with the following new title:

“METHOD OF RESTORATION OF MECHANICAL PROPERTIES OF A
CAST NICKEL-BASED SUPERALLOY FOR SERVICED AIRCRAFT
COMPONENTS”

Please replace the entire specification currently on file, excluding the claims and abstract, encompassing pages 1-9 with the following rewritten specification (substitute specification) encompassing pages 1-11, which is attached hereto. Also attached is a marked-up copy of the substitute specification that indicates the removal of text with a strike-through of the text, the addition of text with an underlining of the text. The changes to the specification can be located on all of the pages. It is submitted that no new matter is being entered with this substitute specification.

Please replace the abstract with the following amended abstract:

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A heat treatment process that will restore the mechanical properties of an aircraft engine article that includes a cast nickel-based superalloy Inconel 718 portion welded to a wrought portion. The heat treatment process includes placing an article that includes the ~~Inconel 718~~ nickel-based superalloy cast portion into a heat treatment chamber, evacuating the chamber to a suitable atmosphere, heating the chamber in a manner that minimizes distortion of the cast portion to a temperature in the range of 1950°F to 2050°F, holding the temperature in that range for a period of time sufficient to solution all the delta phase precipitates, and then cooling the article to room temperature in a manner that minimizes distortion of the article. After solution heat

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treatment, the wrought portion of the engine part can be removed and replaced and the engine article can be reprocessed.

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